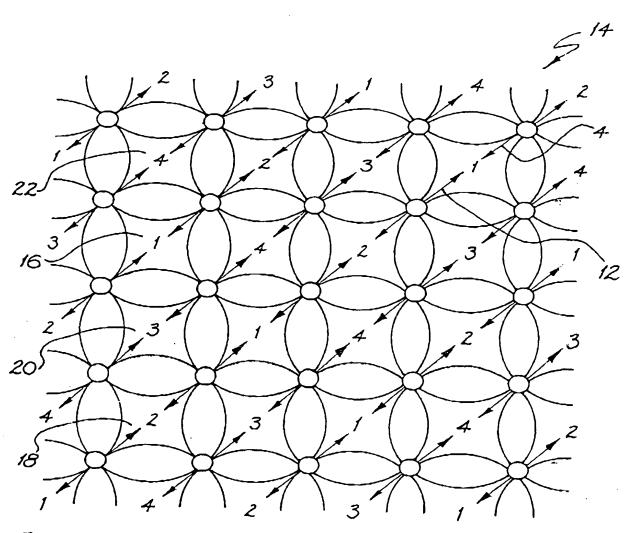
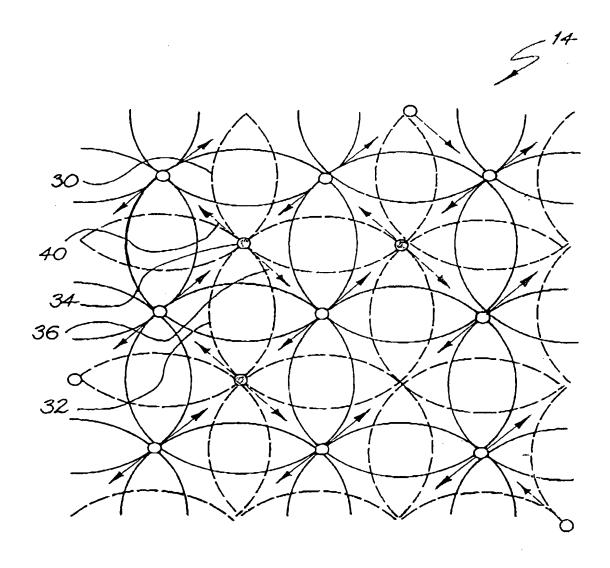


ARRAY OF CELLS FORMING A COVERAGE FOOTPRINT



BACK TO BACK EDGE FED OVERLAID FOR DUAL COVERAGE

CELLS SERVICED TWICE WITH SAME FREQUENCY.
FREQUENCY SET (1,2,3,4)

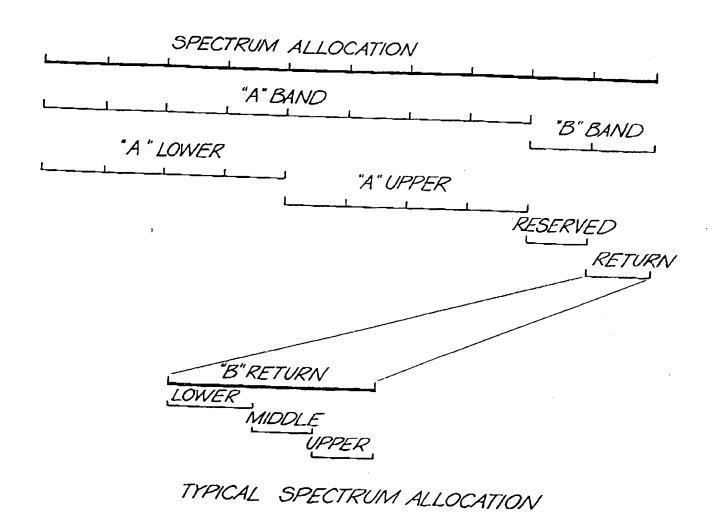


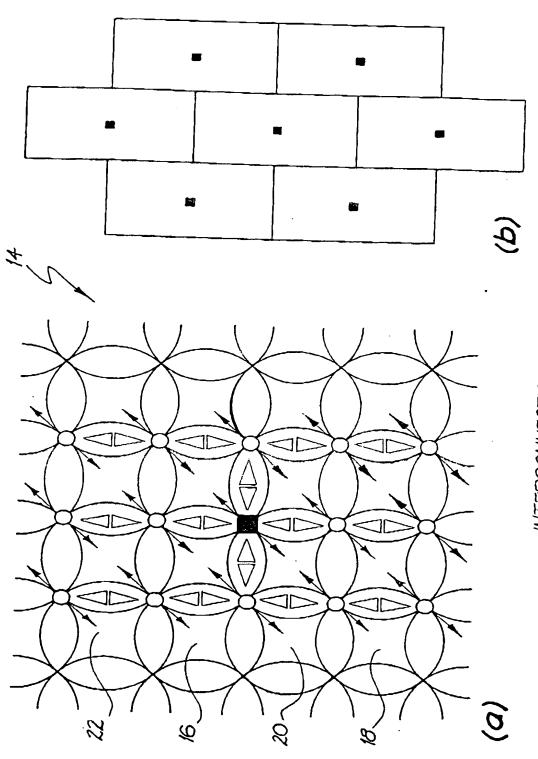
ORTHOGONAL NETWORKS (BROADCAST & BROADBAND OVERLAY)

BROADCAST

BROADBAND

FIG. 4



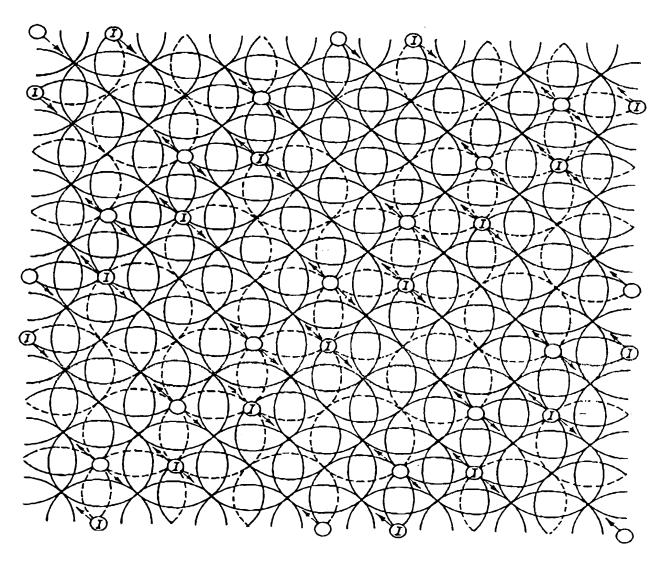


INTERCONNECTION OF CELLS (CLUSTER OF 15)

F1G. 6

75

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BROADCAST NETWORK (FM MODULATION)

VERTICAL \* HORIZONTAL POLARISATION

① INDICATES HALF CHANNEL INTERLEAVED TRANSMISSIONS

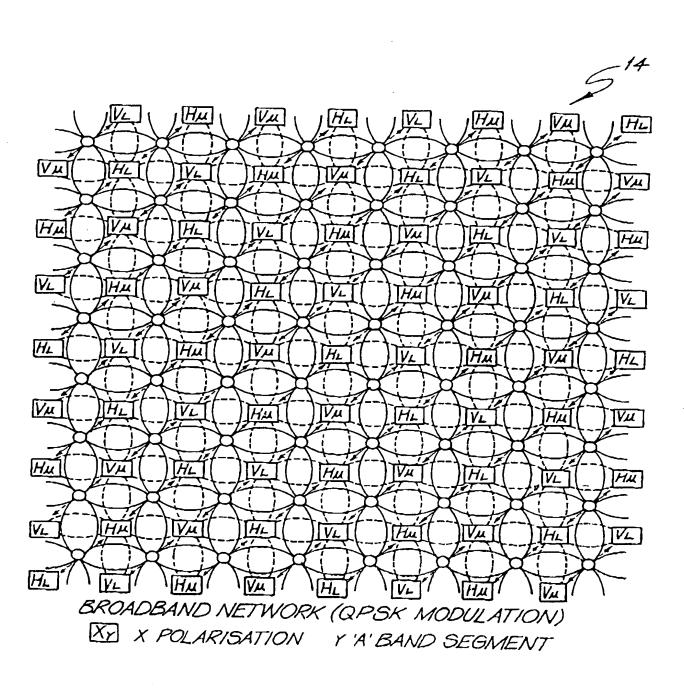
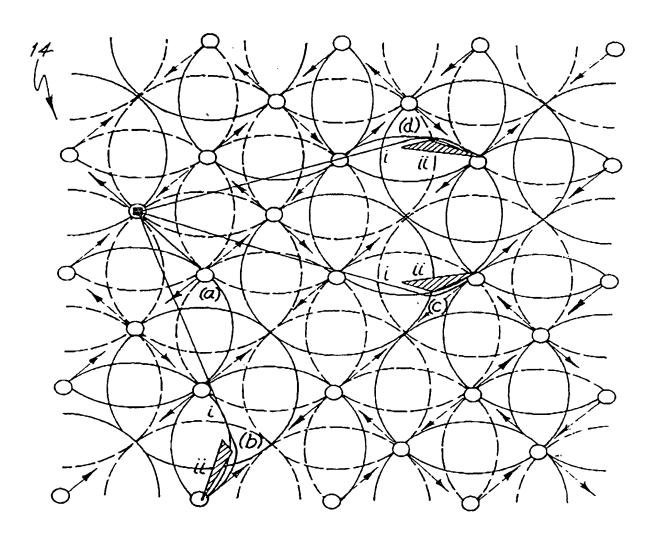


FIG. 8



(a)

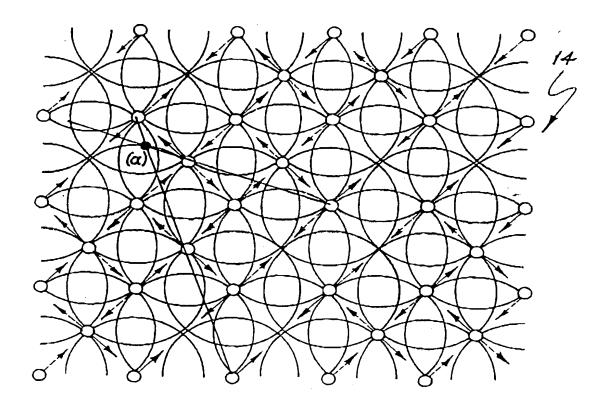
TANGENTIAL

(b) (c) (d)

1. DISTANCE RATIO

U. ALTERNATIVE PATH

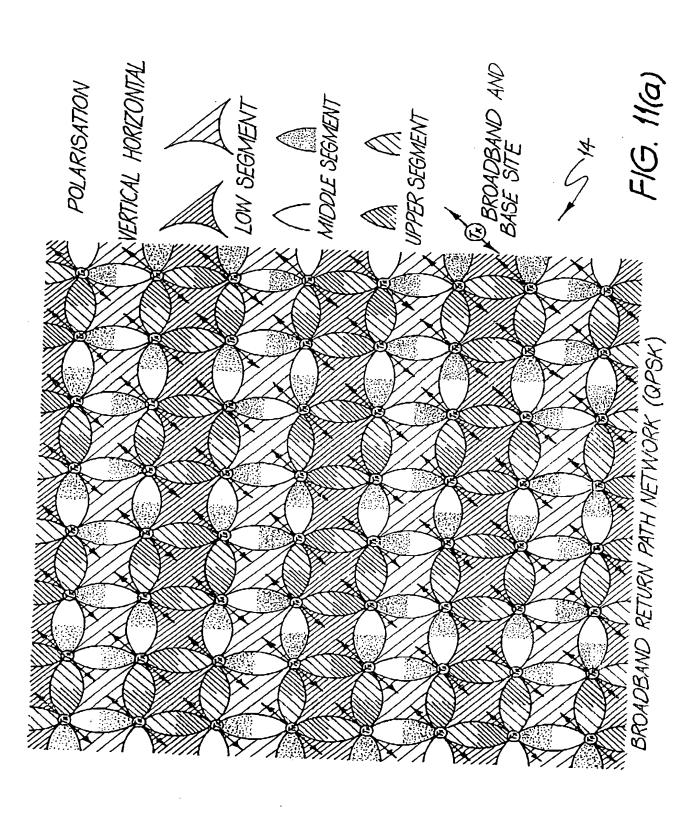
BROADCAST INTERFERENCE ON BROADBAND

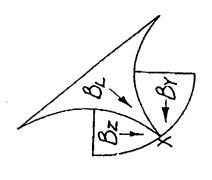


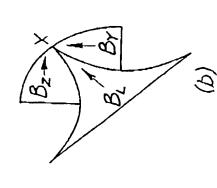
(a) AT POINT (a) THE ALTERNATIVE PATH MAY ALSO-BE UNAVAILABLE. IN SUCH AREAS MICRO-CELLS INFILLS COULD BE USED TO PROVIDE ACCESS TO SERVICES.

AT OTHER POINTS ALONG THE LINE OF INTERFERENCE THE ALTERNATIVE PATH MAY BE AVAILABLE IF REQUIRED.

BROADBAND OUTBOUND INTERFERENCE UPON BROADCAST.







B

X BROADBAND BASE SITE Br. Bz APPROPRIATE MEMBER OF Bm, Bu SET B., Bm, Bu SEGMENT OF 'B' BAND

-- RETURN PATH DIRECTION INDICATOR

FOR A GIVEN BROADBAND BASE SITE ONLY ONE USE OF THE VERTICAL AND HORIZONTAL SET MEMBERS OF THE 'B' BAND MAY BE INCOMING HENCE ALLOCATION FOR THE EXAMPLES (a) AND (b) ILLUSTRATED WOULD BE ON AN EXCUSIVITY BASIS IF SITE X IS COMMON TO BOTH

RETURN PATH TYPICAL SERVICE AREA

FIG. 11(b)

FIG. 12(a)

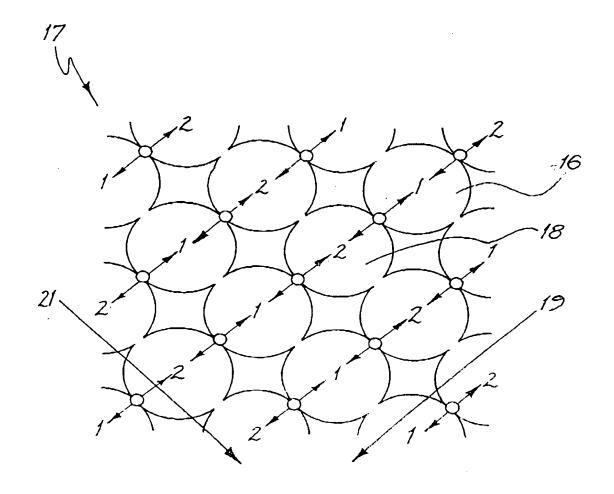


FIG. 12(b)

The transfer of the transfer o